## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAR 10 2006 W. F.

Application No.

10/564,182

Applicants

DOCLO, ET AL.

Filed

JANUARY 11, 2006

Title

METHOD AND DEVICE FOR NOISE REDUCTION

Art Unit

TO BE ASSIGNED

Examiner

TO BE ASSIGNED

Atty Docket No.

COCH-0185-US1

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The below-identified communication(s) is (are) submitted in the above-captioned application or proceeding:

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Information Disclosure Statement (2 pages)

 $\times$ 

IDS Patent Listing Form SB08a (1 page) w/1 foreign patent application

 $\times$ 

IDS Non-Patent Listing Form SBO8b (1 page) w/5 non-patent articles and Search

Report

Respectfully submitted,

Michael G. Verga Reg. No. 39,410

Tel. (703) 563-2005

Jagtiani + Guttag

Democracy Square Business Center 10363-A Democracy Lane Fairfax, Virginia 22030 703-591-2664

March 10, 2006



Application No. : 10/564,182 Applicants : DOCLO, ET AL.

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Title : METHOD AND DEVICE FOR NOISE REDUCTION

Art Unit : TO BE ASSIGNED Examiner : TO BE ASSIGNED

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## INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.51(d), 1.56, 1.97 and 1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO/SB/08. Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each foreign patent, or each publication or portion thereof listed or herein identified, is submitted herewith, except that a copy of any U.S. patent application identified herein or any patent, publication or other information listed herein cited or submitted in a prior application relied upon for an earlier filing date under 35 U.S.C. § 120 and identified below, is not submitted herewith.

## **CERTIFICATION**

This Information Disclosure Statement is submitted within three months of (i) the filing date of the above-identified U.S. National Patent application, or (ii) before the first office action on the merits, or (iii) the date of entry into the U.S. National Stage of the above-identified International Application, or (iv) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

The Commissioner is hereby authorized to charge payment of any fees associated with this communication, including fees under 37 C.F.R. §§ 1.16 and 1.17 or credit any overpayment to **Deposit Account Number 10-0233-COCH-0185-US1.** 

Application Number: 10/564,182

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Respectfully submitted,

Michael G. Verga

Registration Number 39,410

JAGTIANI + GUTTAG Democracy Square Business Center 10363-A Democracy Lane Fairfax, Virginia 22030 (703) 591-2664

March 2, 2006

PTO/SB/08a (08-03)

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## INFORMATIONALS CLOSURE STATEMENT BY APPLICANT

Sheet

(Use as many sheets as necessary) of

Complete If Known			
Applicant Number	10/564,182		
Filing Date	January 11, 2006		
First Named Inventor	DOCLO, Simon		
Art Unit	To be assigned		
Examiner Name	To be assigned		
Attorney Docket Number	COCH-0185-US1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/DP/		US- 2002-034310 A1	03-21-02	Hou Zezhang	
/DP/	l	US- 5,953,380 A	09-14-99	Ikeda, Shigeji	
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FOREIGN PATENT DOCUMENTS							
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Examinor 5		Date	
Signature		Considered	00/27/2000

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)

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Substitute for Form PTO-1449				Complete If Known		
			ľ	Applicant Number	10/564,182	
	NFORMATION DIS	CI OSKIPPE	•	Filing Date	January 11, 2006	
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	STATEMENT BY A	PPLICANT	4	rt Unit	To be assigned	
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NON PATENTING URE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  NEO, ET AL., "Robust microphone arrays using subband adaptive filters," IEE Proceedings: Vision, Image and Signal	T <sup>2</sup>			
/DP/ 		Processing, Institution of Electrical Engineers, GB, Vol. 149, No. 1, February 21, 2002, pages 17-25, ISSN: 1350-245X, page 17-21 Proceedings of the 2003 International Workshop on Acoustic Echo and Noise Control, "Online!" September 8, 2003, pages 147-	ļ			
		150, "Spatially Pre-Processed Speech Distortion Weighted Multi-Channel Wiener Filtering for Noise Reduction in Hearing Aids."  OMOLOGO, M., ET AL. "Environmental conditions and acoustic transduction in hands-free speech recognition" Speech	ļ			
98		Communication, Amsterdam, NL., Vol. 25, No. 1-3, August 1, 1998, pages 76-95, ISSN: 0167-6393.	<u> </u>			
		LIN, L., ET AL., "Speech denoising using perceptual modification of Wiener filtering" <i>Electronics Letters, IEE Stevenage, GB</i> , Vol. 38, No. 23, November 7, 2002, pages 1486-1487, ISSN: 0013-5194	l			
<b>***</b>		LINK, M.J., ET AL: "Robust real-time constrained hearing aid arrays," Applications of Signal Processing to Audio and Acoustics, 1993, Final Program and Paper Summaries, 1993. IEE Workshop on New Paltz, NY, USA, 17-20 Oct., 1993, New York NY, USA, IEEE. October 17, 1993, pages 81-84, ISBN: 0-7803-2078-6.				
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Examiner's Signature	/Disler Paul/	Date Considered	08/27/2008	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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